ZAGER, B.A.; INDREASH, G.; TISHIN, V.G.; SHELAYEV, I.A.; SARANTSEVA, V.R., tekhm. red.

[Electron loading of a cyclotron resonator] Elektronnaia zagruzka rezonatora tsiklotrona. Dubna, Ob"edinennyi in-t iadernykh issledovanii, 1962. 10 p. (MIRA 15:6) (Electric resonators) (Cyclotron)

ACCESSION NR: AP4013417

\$/0057/64/034/002/0297/0306

AUTHOR: Zager, B.A.; Tishin, V.G.

TITLE: High frequency resonant discharge and possibilities of suppressing it

SOURCE: Zhurnal tekhn.fiz., v.34, no.2, 1964, 297-306

TOPIC TAGS: discharge, resonant discharge, multipactor effect, resonant discharge suppression, multipactor effect suppression, single-electrode resonant discharge, two-electrode resonant discharge

ABSTRACT: The high frequency resonant discharge that occurs in high vacuum apparatus as a result of electron multiplication by secondary emission at the electrodes (multipactor effect) was investigated both theoretically and experimentally. Particular attention was given to the effect of an applied constant field (bias), which can suppress the discharge by asymmetrically altering the flight times in the two directions. A simple calculation in which the initial velocities of the secondary electrons are neglected and the field is assumed to be uniform indicates that two-electrode remant discharge should be suppressed by a bias exceeding 0.05 $(4\pi^2m/e)(fd)^2$, where f is the frequency, d is the electrode separation, and m and

Card1/3

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"

e are the electron mass and charge, and that single-electrode resonant discharge should be suppressed by a bias somewhat greater than twice this value. Resonant discharge between 20 cm diameter circular plates was investigated experimentally over the frequency range from 9 to 23 Mc. The high frequency potential was supplied by a self-excited oscillator and was measured with an electrostatic voltmeter. The presence of a discharge was indicated by fluorescence of material included for this purpose, or by the direct current to the plates due to loss of electrons to the wall of the chamber. At fd values greater than about 250 megacycle cm the experimental results agreed roughly with the theory. A bias of $0.16(4\pi^2m/e)(fd)^2$

would suppress both two-electrode and single-electrode discharge at all amplitudes. Deviations from the theory at lower fd values are presumed to be due to the effects of electron velocity distribution, which were neglected in the theory. Small values of the bias were observed to increase the resonant discharge intensity. This phenomenon may be useful in connection with instruments (e.g. frequency multipliers) in which the presence of resonant discharge is required. Resonant discharge did not occur at fd values less than 90 megacycle cm. This agrees better with the value of 50 eV given by A.I.Hatch and H.B.Williams (Phys.Rev.112,No.3,1958) for the

electron energy at which the secondary emission coefficient becomes unity than

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ACCESSION NR: AP4013417

with the value of 200 eV given by L.B.Mullet, R.E.Clay and R.I.B.Hadden (AERE.GP/R, 1076,1957). The material of the plates (Cu, Fe, Al, Ti) had no marked effect on the results. Air, chlorine, and sulfur were found to poison the discharge, presumably by forming a surface layer of negative ions on the electrodes. It is concluded that high frequency resonant discharge can be suppressed by applying sufficient bias or by keeping the fd value below 90 megacycle cm, and that the discharge does not occur when the electrodes are covered by a surface layer of negative ions. Orig.art.has: 23 formulas and 7 figures.

ASSOCIATION: none

SUBMITTED: 13Aug62

DATE ACQL 26Feb64

ENCL: 00

SUB CODE: PH GE

NR REF SOV: 002

OTHER: 010

(3/3

ZAGER, B.A.; TISHIN, V.G.

High-frequency resonance discharge in a cyclotron. Zhur, tekh. fiz. 33 no.9:1121-1130 S '63. (MIRA 16:11)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"

L 11400-63

EWI(m)/BDS AFFTC/ASD

S/120/63/000/002/002/041

AUTHOR:

Zager, B.A., Indreash, G., Tishin, V.G., and Shelayev, I.A

TITLE:

Electronic loading of cyclotron resonators

PERIODICAL:

Pribory i tekhnika eksperimenta, March-April 1963, v. 8,

no. 2, 20-24.

In order to improve the design and operation of cyclotrons, the TEXT: authors discuss the 25-30 percent loss occurring in voltage on cyclotron D's when the magnetic field is switched on. This phenomenon is connected with avalanches of electrons oscillating between the rims of the D's. After 20-30 hours of aging, layers of carbon form on the rims of the D's and the voltage on the D's increases, but is still closely related to the strength of the magnetic field. The aging time may be decreased by coating the D rims with carbon before operating the cyclotron. Coating of other surfaces where electron avalanches may appear, results in a further 7 percent decrease in the power loss in accelerating secondary avalanche electrons. These results were obtained with the U-150 cyclotron.

ASSOCIATION: Cb"yedinennyy inst. yadernykh issledovaniy (Joint Institute of for

Nuclear Research) Card 1/2

ACC NR. AR6033987

SOURCE CODE: UR/0271/66/000/008/B035/B035

AUTHOR: Zhukov, G. P.; Barilko, Sh. I.; Zabiyakin, G. I.; Kim Gen' Chu'; Li Min Ven'; Tishin, V. G.; Shibayev, V. D.

TITLE: Magnetic tape analyzer

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika, Abs. 9B265

REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelectron. T. 3, Ch. 1. M., Atomizdat, 1965, 197-207

TOPIC TAGS: magnetic analyzer, magnetic recording tape, computer memory, storage device

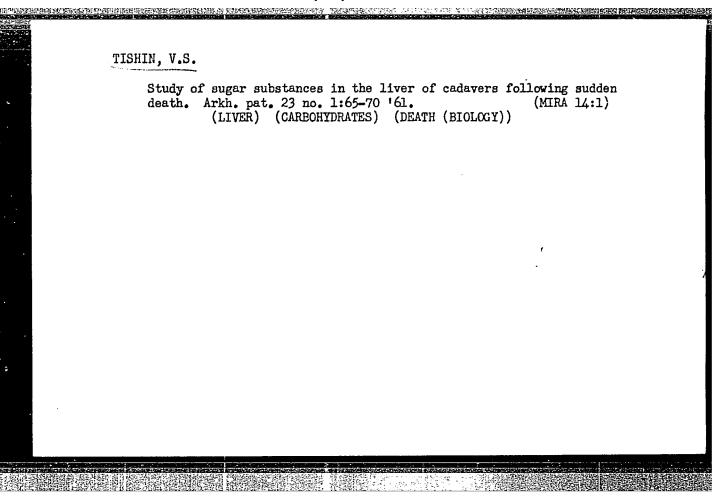
ABSTRACT: The block-diagram of a multidimensional magnetic analyzer with magnetic tape recording is investigated. Binary codes which characterize the investigated event are simultaneously recorded in the recorder on 20 tracks of an evenly moving magnetic tape. The recorder contains an intermediate memory computer, a recording and readout device, a controlling storage device with an oscillographic indicator and a device for selecting information during readout.

Card 1/2

UDC: 681.142:621.374.32

ACC NR: AR603	3987			
regularity of the over 512 record large number of	code. The co e analyzer's o ling channels, f channels, th	controlling storage de operation. It posses . In order to realize he recorder has its o	mediate memory in the evice is designed to consists a recording cycle a time-amplitude analown amplitude and time translation of abstract	of 12,22sec ysis with a
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ACC NR: AP6036954

(A, N)

SOURCE CODE: UR/0181/66/008/011/3181/3186

AUTHOR: Tishin, Ye. A.; Tsarev, B. M.

ORG: Moscow Physicotechnical Institute (Moskovskiy fiziko-tekhnicheskiy institut)

TITIE: On the existence of a minimum in the work function of film cathodes

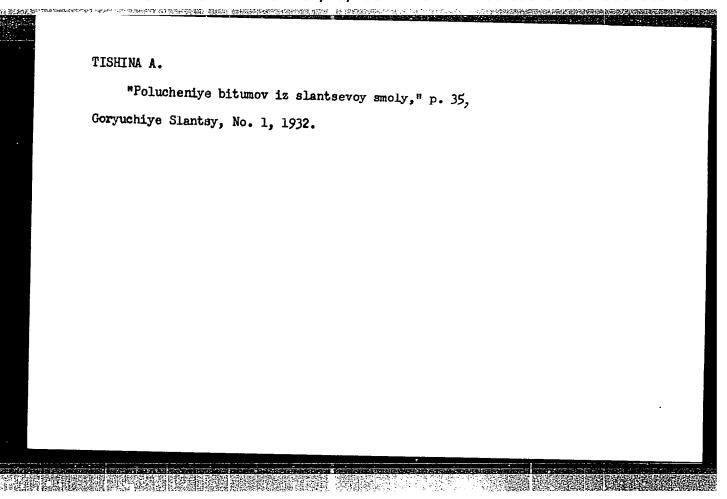
SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3181-3186

TOPIC TAGS: work function, metal film, cathode

ABSTRACT: Studies of the dependence of the work function ϕ on the degree of coverage θ were carried out on barium and calcium films vaporized onto tungsten, tantalum, niobium and rhenium, and on cesium films vaporized onto tungsten and rhenium. For all systems, in the 10^{-9} - 10^{-10} mm pressure range of the residual gases, $\phi(\theta)$ functions with a minimum were obtained. It was found that impurities in amounts equivalent to tenths and hundredths of a monolayer do not have any appreciable effect on the form of $\phi(\theta)$; this suggests that the minimum in the work function of the cathodes will exist even under conditions of limiting purity. No minimum in $\phi(\theta)$ was observed in two cases: (1) when the films were vaporized onto powders and (2) when the sample (a tungsten ribbon) was heated briefly close to the melting point. It is concluded that a minimum in the work function is characteristic of monatomic films on smooth surfaces, and that the roughness of the surface leads to a monotonic $\phi(\theta)$ relationship. In conclusion, the authors express their deep appreciation to V. I. Makukh for his

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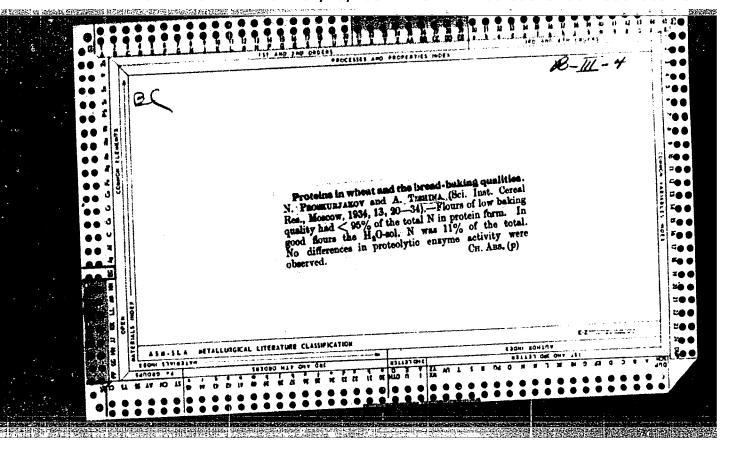
TISHINA, A., YEFREMOVA, L., OQUSHEV, K., AND FAYNGAR, M.

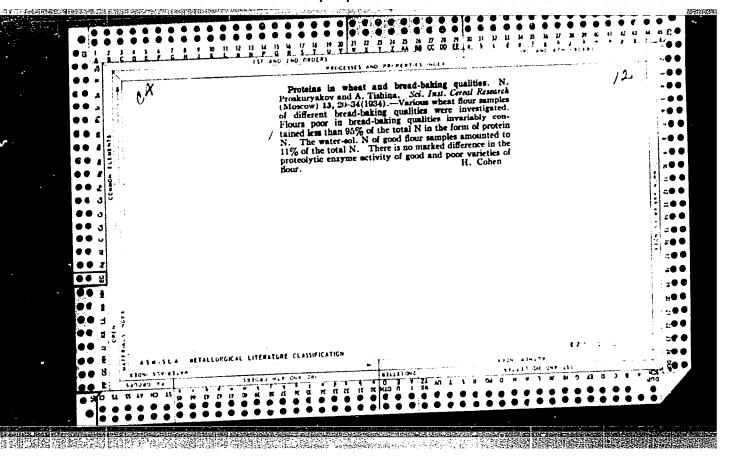
Pererabotka Veymarnskikh Slantsev V Flasticheskly, Stroitel'Nyy I Krovel'No-Dorozhnyy Material, Goryuchiye Slantsy, 1933, No. 6, 43.

SO: Goryuchiye Slantsy #1934-35, TN .871

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"





EXCERPTA MEDICA Sec. 7 Vol. 9/10 Oct. 55 15 AINA E.N. *The influence of a high protein intake on the function of the liver in epidemic hepatitis in children (Russian text) PEDIATRIJA 1953, 5 (43-48) As indicators of the function of the protein metabolism of the liver, bilirubin, total proteins, NPN and urea were determined in the blood, ammonia and aminoacids in 24 hr. urine. Treatment consisted of bed rest, daily administration of 200-500 ml. of a 3% solution of magnesium sulphate, 200-300 ml. of a 10% dextrose, 200-300 mg. of ascorbic acid and 3-4 tablets of multivit. The patients 7-12 yr. old received 3 various diets: In group I were 4 children who received a lacto-vegetable diet with 71 g. proteins, 350 g. carbonydrates; the fats were in the first period of observation reduced to 25-30 g. and later increased to 82 g. The daily calories were 2390 and the proteins 2.79 g./kg. This dict was soon abandoned because of its bad results. The 5 children of group II received 70 g. of proteins, 66 g. of fats, 350 g. of carbohydrates. The calories were 2350 and the proteins 3.08 g./kg. In the third group the 22 children were on the same diet with 100 g. of milk-curds daily in addition; the proteins were thus increased to 3.61 g./kg. Some of the children in all 3 groups received plasma parenterally once or repeatedly. The most favourable results in all respects were in the 3rd group. Plasma infusions were favourable only if the dose did not exceed 2 ml./kg. and if the interval between the infusions was not shorter than 8-14 days. Najman - Rijeka	THE PARTY OF THE P	

TISHINA, J.I., RYCHKOV A.I. [deceased]

Heat transfer during the surface boiling of solutions of nonvolatile substances. Khim. prom. 41 no.3:219-221 Mr '65. (MIRA 18:7)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"

F-5 Microbiology. Microorganisms Pathogenic TISHINA, N.D. to Humans and Animals Abs Jour: Ref Zhur - Biol., No 6, 1958, 24238 USSR/ : Not given

: Not given

of Resistance of Paratyphoid Stimu
on the Problem of Resistance of Paratyphoid Stimu
contain Physical and Chemical Race

contain Physical Un the Problem of Resistance of Paratyphold Stimu-lant in Sheep to Certain Physical and Chemical Factors. ; Tishina, N.D. Orig Pub: Tr. Stavropolsk. s.-kh. in-ta, 1956, No 7, 343-348 Author Inst Abstract: A culture of Salmonella ovis on Chotinger agar Title Batiste Cloth test objects saturated with paratyphoid cultures buried in sterile soil or dung typhoid cultures puried in sterile soil or dung typhoid cultures puried in sterile soil or dung in the culture is killed. The culture is killed in the culture is killed in the culture is killed. The culture is will withstand summer beyond 90 days. But it will withstand instantly on boiling, but it will withstand instantly on boiling, minutes. The culture dies heating at 700 for 15 minutes.

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APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755820004-9"

KOKURIN, A.D.; ROZENTAL, D.A.; SUSLINA, V.P.; TISHINA, N. .

Investigating the interaction of carbon dioxide with fuel carbon under dynamic conditions. Trudy LTI no.59:107-112 '61.

(MJRA 17:9)

SOV/80-59-1-32/44

AUTHORS: Andrianov, K.A., Golubtsov, S.A., Tishina, E.E. and Trofineva,

I.V.

TITLE: Direct Synthesis of Phenyltrichlorosilane in a "Fluidized" Bed

(Pryamoy sintez femiltrikhlorsilana v "kipyashchem" sloye)

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Er 1, pp 201-207 (USSR)

ARSTRACT: The authors investigated the synthesis of phenyltrichlorosilane out of chlorobenzene, hydrogen chloride and silicon in a "flu-

idized" bed in the presence of copper and iron as catalyzers at a temperature of approximately 600°C. The experiments performed showed the possibility of attaining the high efficiency of the process, the satisfactory yield of phenyltrichlorosilane, approximately 11 g from 100 g of the contact mass per hour, and

sufficiently complete utilization of silicon, 60%.

There are 7 tables and 5 references, 1 of which is Soviet and

4 American.

SUBMITTED: May 29, 1957

Card 1/1

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"

L 16656-65 EWT(m)/EPF(c)/EWP(j)/T Pc-li/Pr-li RM

ACCESSION NR: AP4041804

S/0080/64/037/007/1634/1636

AUTHOR: Golubtsov, S. A., Tsvanger, T. A., Andrianov, K. A., Tishina, N. N. Vasil'chikov, N. V.

TITLE: Effect of conditions on the synthesis of phenyltrichlorosilane from silicon, chlorobenzene and hydrogen chloride in a fluidized bed

SOURCE: Zhurnal prikladnoy khimii, v. 37, no. 7, 1964, 1634-1636

TOPIC TAGS: phenyltrichlorosilane, synthesis, fluidized bed reaction, reaction condition, reactant ratio, reaction temperature, reaction pressure, reactant feed rate

ABSTRACT: This is a continuation of work reported by K. A. Andrianov, S. A. Goluntsov, N. N. Tishina and I. V. Trofimaova (ZhPKh, XXXII, 201 (1959)) to determine optimum conditions for the fluidized bed synthesis of phenyltrichlorosilane by reaction of silicon (as a 20% Si Cu alloy), chlorobenzene and hydrogen chloride. Results are summarized. It was found that optimum conditions include: (a) reactant ratio of HCl: C₆H₅Cl = 1.5; (b) gas flow rate = 2.5 cm/sec; (c) con-

Card 1/2

common managements and in administrational administrational designation of the common and in the common of the com L 16654-65 ACCESSION NR: AP4048460 chemical properties are studied for the first time. These studies showed that some of these esters have good properties as plasticizers and can be used with polyvinyl chloride. polyamide and nitrocellulose resins. Research is being continued with reference to improving the ester yield, testing them as plasticizers and synthesizing esters based on cyclohexylcarbinol. Orig. art. has: 1 structural formula and 2 tables. ASSOCIATION: Institut neftekhimicheskikh protsessov (Institute of Petrochemical Processes) SUBMITTED: 19Feb.64 ENCL: 00 SUB CODE: OC NO REF SOV: 009 OTHER: 000 2/2

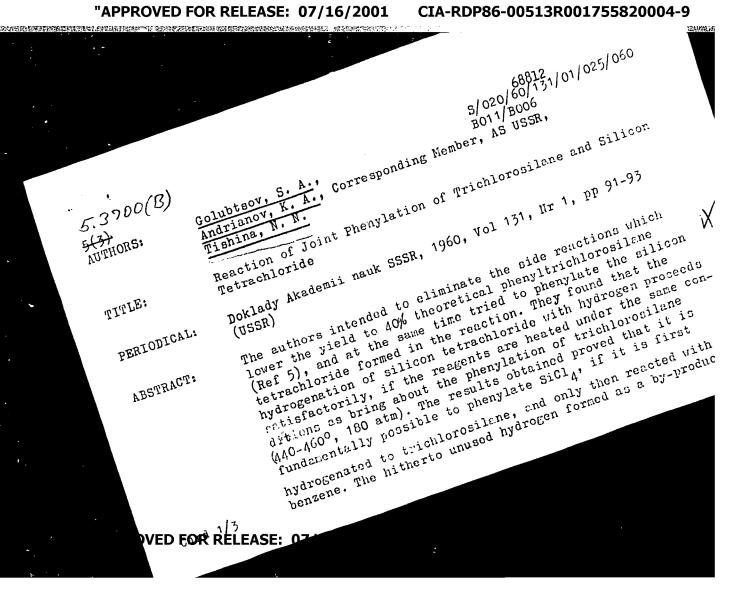
TISHINA, N. N.

N. N. Tishina, K. A. Andrianov, S. A. Golubtsov, M. I. Kafyrov and R. L. Darashkevich, "The Reaction of Phenylizing the Trichlorsilane."

report presented at the Second All-Union Conference on the Chemistry and Practical Application of Silicon-Organic Compounds held in Leningrad from 25-27 September 1959.

Zhur. Prikl. khimii, 1959, No. 1, pp. 238-240.

"APPROVED FOR RELEASE: 07/16/2001



Reaction of Joint Phenylation of Trichlorosilane and Silicon Tetrachloride

5/020/60/131/01/025/060 BO11/BOO6

in reaction (1) was utilized for the first stage of this process. For this purpose, the authors reacted a nixture of Sicl, C6H6, and trichlorosilane (Ref 6) under the abovementioned reaction conditions. The nolar ratio of trichloresilene: SiCl, was varied between 0.25: 0.75 and 0.65: 0.15.

It can be seen figure 1 that the yield in phenyltrichl. silane (in E-12) per 100 g-mol of reacted trichlorosilane) increases with increasing content of SiCl in the reaction

mixture. This cannot be explained by the curporession of the disproportionation of trichlorosilene, occurring as a side reaction, since the yield in phenyltrichlorosilane often comsiderably exceeds 100 g-mol per 100 g-mol trichlorosilane. This proves that the phenylction proceeds according to the tended scheme (see scheme given), under utilisation of the tended scheme (see scheme given). The increased hydrogen process hydrogen formed in reaction (1). The increased hydrogen formed in the first reaction is a hydrogen formed to first reaction. sure facilitates the first reaction, i.e. hydrogenation. For sure facilitates the first reaction, i.e. nyarogenation, repetition this reason phenyltrichlorocilens, and product, was obtained product, was obtained by the reason phenyltrichlorocilens, and the reaction of the reaction o tained in much higher yield then dista whencele at at-

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CIA-RDP86-00513R001755820004-9" **APPROVED FOR RELEASE: 07/16/2001**

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Reaction of Joint Phenylation of Trichlorosilane and Silicon Tetrachloride

S/020/60/131/01/025/060 B011/B006

mospheric pressure. The authors have thus proved that the phenylation of SiCl₄ with benzene gives sufficiently high yields even without use of metalorganic compounds, if conditions are so chosen, that SiCl₄ is hydrogenated by hydrogen to the intermediate trichlorosilane according to reaction (2). Trichlorosilane then reacts with benzene and forms phenyltrichlorosilane, regenerating hydrogen. There are 1 figure and 6 references, 5 of which are Soviet.

SUBMITTED:

November 5, 1959

Card 3/3

L 14491-65 EWT(m) DIAAP/SSD/AFWL/ASD(a)-5/ESD(gs)/ESD(t)
ACCESSION NR: AP4048634 S/0048/64/028/010/1631/1636

AUTHOR: Dzhelepov, B.S.; Tishkin, P.A.; Shishelov, I.A.

 \mathcal{B}

TITIE: Decay of the 169-day metastable state of Re 184 Report, Fourteenth Annual Conference on Nuclear Spectroscopy held in Tbilisi, 14-22 Feb 1964

SOURCE: AN SSSR. Ivz. Seriya fizicheskaya, v.28, no.10, 1964, 1631-1636

TOPIC TAGS: metastable state, electron conversion, electron spectrum, beta decay, nuclear spectroscopy, rhenium

ABSTRACT: The conversion electron spectrum of a cyclotron irradiated tungsten target was examined during a period of 18 months in order to obtain information concerning the decay of the 169-day metastable state of $\rm Re^{184}$. A double toroidal β -spectrometer with a resolution of 1.5% was employed, and coincidences were counted with a "fast-slow" circuit having a resolving time of 10 nanosec. Nine conversion peaks were observed in the energy range from 25 to 125 keV, of which four fell off in intensity with a period close to 169 days. Many of the observed peaks were revealed by their decay and their coincidence behavior to be complex. A number of transitions in $\rm Re^{184}$, $\rm W^{184}$ and $\rm W^{183}$ were identified (some tentatively) and informa-

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ACCESSION NR: AP4048634

tion concerning their multipolarities was obtained from the intensity ratios. It was established that the decay of the metastable state of Re¹⁸⁴ is complex, but the data are too scanty for construction of a decay scheme. Transitions of 55 and 163 keV energy in Re184 were observed in coincidence. The sum of these energies corresponds closely to the energy of the 217 keV γ-rays observed by N.R.Johnson (Bull. Amer. Phys. Soc. 6,73,1961; Phys. Rev. 129,1737,1963), who also detected 163 keV γ-rays. These transitions were of low multipolarity and accordingly connect states with close spin values. "In conclusion we express our gratitude to A.I.Feoktistov for providing the material for the source, and S.F.Koksharova for assistance in the measurements." Crig.art.has: 4 figures and 2 tables.

ASSOCIATION: none

ENCL: 00

SUBMITTED: 00

SUB CODE: NP

NR REF SOV: 009

OTHER: 002

2/2

TISHINA, Ye. N. (Phys)

TISHINA, Ye. N. (Phys) -- "Effect of the Protein Load on the Functional Condition of the Liver in Epidemic Hepatitis in "hildren." Sub 22 Dec 52, Second Moscow State Medical Inst imeni I. V. Stalin. (Dissertation for the Degree of Candidate in Medical Sciences.)

So: Vechernaya Moskva January-December 1952

TISHINA, Ye.N.; PROKUDINA, T.A.; VIASOV, V.A., professor, zaveduyushchiy; KALUGINA, M.H., glavnyy vrach.

Two cases of familial glycogenosis. Pediatriia no.4:71-75 Jl-Ag '53. (MLRA 6:9)

1. Klinika propedevtiki detskikh bolesney pediatricheskogo fakul'teta II Moskovskogo meditsinskogo instituta im. I.V.Stalina na baze Filatovskoy detskoy bol'nitsy (for Vlasov). 2. Filatovskaya detskaya bol'nitsa (for Kalugina). (Liver--Diseases)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"

		•	1 1	
USSR/Medicine - Epidemic Hepatitis Sep/Oct 53	"The Effect of a Protein Load on the Functional Condition of Liver in Epidemic Hepatitis of Children," E. N. Tishina, Propedeutic Clinic of Children's Diseases, 2nd Moscow Med Inst imeni I. V. Stalin.	Pediat, No 5, pp 43-48	Describes observations of three groups of children with epidemic hepatitis. Faster and uneventful recovery was observed in children who at the early stages of the disease had received a full diet (including meat) reinforced with cottage cheese. Transfusions of natural plasma produced controversial results.	

REYBAKH, M.S.; TSIRLIN, A.M.; MOZHAYKIN, A.S.; BORISOV M.F.; TISHINA, N.N.

Studying the continuous process of cohydrolysis of organosilicon monomers used for the manufacture of electric insulation lacquers.

Lakokras.mat. i ikh prim. no.2:64-67 '64. (MIRA 17:4)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"

TISHITA, Ye. N.

"Hambook on dietetics for young children." Reviewed by E.N. Tishina. Pediatriia no.2:84-85 Mr-Ap '55. (MERA 9:9)

(Children--Mutrition) (Diet)

KHODARKVA, R.B.: TISHINA, Ye.N., kandidat meditsinskikh nauk

建加度物的复数形式 人名西拉尔 医性动脉 医红色 电阻性电路 经不完全 经非正规 医二十二十二元

Problem of the association of eosinophilic granuloma with xanthomatosis (Hand-Christian-Schueller syndrome). Pediatriia 39 no.2: 83-86 Mr-Ap '56. (MLRA 9:8)

1. Iz kafedry propedevtiki detskikh bolezney (zav.-prof. V.A. Vlasov) II Moskovskogo meditsinskogo instituta imeni I.V.Stalina na baze Detskoy bol'nitsy imeni N.F.Filatova (glavnyy vrach M.N. Kalugina)

(LIPOIDOSIS, in infant and child, Hand-Christian-Schueller synd. (Rus))

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"

TISHINA, Ye.N.; SOBOLEVA, N.I.; VAYTSENFEL'D, M.Ye.

Anomalies in the development of the kidneys in children. Vop. okh. mat. i det. 6 no.8:75-80 Ag '61. (MIRA 15:1)

l. Iz kafedra propedevtiki detskikh bolezney (zav. - prof. V.A.Vlasov) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova i iz detskoy bol'nitsy imeni N.F.Filatova (zav. - patologoanatomicheskim otdeleniyem N.I. Soboleva, glavnyy vrach L.A.Vorokhobov).

(KIDNEYS_ABNORMITIES AND DEFORMITIES)

Problem of the hepatolienal syndrome after Botkin's disease in children. Pediatriia 38 no.2:62-68 F '60. (MIRA 13:12) (HEPATITIS, INFECTIOUS) (SPIEEN—DISEASES)

TISHINA, Ye.N., dotsent; SEMENOV, B.N.

Essinophile reactions of the blood in children. Pediatriia 37 no.11: 60-63 N 159. (MIRA 13:3)

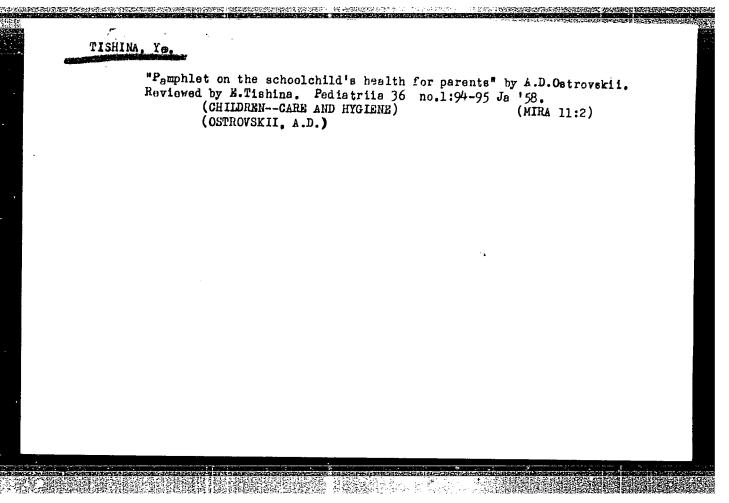
1. Iz kafedry propedevtiki detskikh bolezney II Moskovskogo meditsinskogo instituta (zaveduyushchiy - prof. V.A. Vlasov) na baze detskoy bol'nitsy imeni N.F. Filatova (glavnyy vrach M.N. Kalugina). (EOSINOPHILES)

113H1MA, 14.16.

TISHINA, Ye.M., kand.med.nauk; YEVSIKOVA, Z.F.; MAKAROV, V.N.

Paroxysmal tachycardia in a two-and-a-half-year-old child, complicated by hemiplegia and infarct-type changes in the electrocardiogram [with summary in English]. Pediatrila 36 no.1:74-78 Ja '58. (MIRA 11:2)

l. Iz kliniki propedevtiki detskikh bolezney II Moskovskogo meditsinskogo instituta (zav. kafedroy - prof. V.A.Vlasov) na baze Detskoy bol'nitsy imeni N.F.Filatova (glavnyy vrach M.N.Kalugina) (ARRHYTHMIA) (PARALYSIS) (CHILDREN-DISEASES)



(Slide rule)

Slide rule for determining the weight and length of tutes and solid blanks. Metallurg 7 no.2:35 F '62. (MIRA 15:3)

1. Pervoural'skiy Novotrubnyy zavod.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"

TISHKEVICH, I.I. SKOROPAMOV, S.G., redektor; ALEKSANDROVICH, Kh., tekhnicheskiy redektor

[Fodder root crops on peat bog soils] Kormovye korneplody ne torfiano-bolotnykh pochvakh. Minsk, Izd-vc Akad.nauk BSSR, 1955. 50 p. (MIRA 10:10)

1. Chlen-korrespondent Akademii nsuk BSSR (for Skoropanov) (Root crops)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"

Tibhrafich, i. i.

272hh. TISHKEVICH, I. I.-- Vozdelyvenie vszhneyshikh ovoshchnykh kul'tur na torfyanykh pochvakh i perspektiva rezvitiya ovoshchevodstva v svyazi s melioratsiey poles'ya v sb: K voprosu osvoeniya i razvitiya proizvodit. Sil poles'ya. Minsk, 1945, s. 152-60.

S0: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

TISHKEVICH, I. I.

"Pasic Agrotechnical Problems of Vegetable Crops on the Peat-Bog Soils of the Belorussian SSR." Cand Agr Sci, Inst of Socialized Agriculture. Acad Sci, Belorussian SSR, Minsk, 1954. (RZhBiol, No 7, Dec 54)

Survey of Scientific and Technical Dissertations Defended at UJSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

NEKRASHEVICH, I.G.; LOYKO, V.I.; TISHKEVICH, M.I.

Use of semiconductor valve elements to measure the intensity of X-ray radiation. Sbor. nauch. trud. Fiz.-tekh.inst. AN BSSR no.7:107-113 '61. (NIRA 15:7)

(Semiconductors) (X rays)

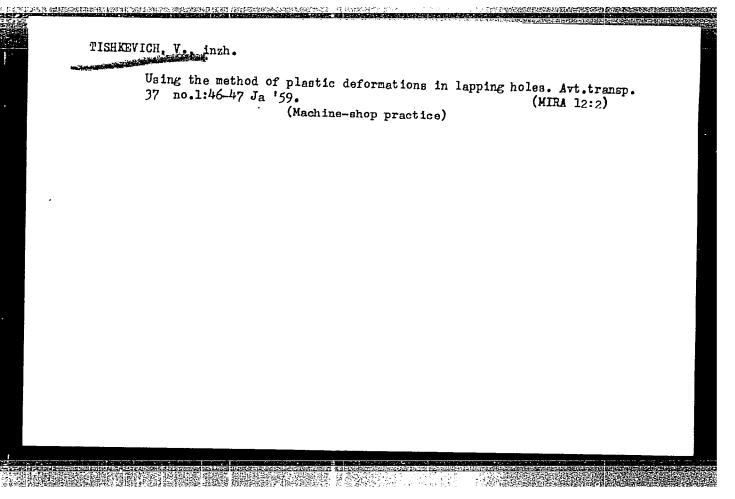
SUKHORUK, A.M., inzh.; TISHKEVICH, N.Ya.; IVANOVSKIY, N.F., inzh.; MELEKHOV, F.P., inzh.; ABDURAKHMANOV, K.A.; IVANOV, I.I., red.

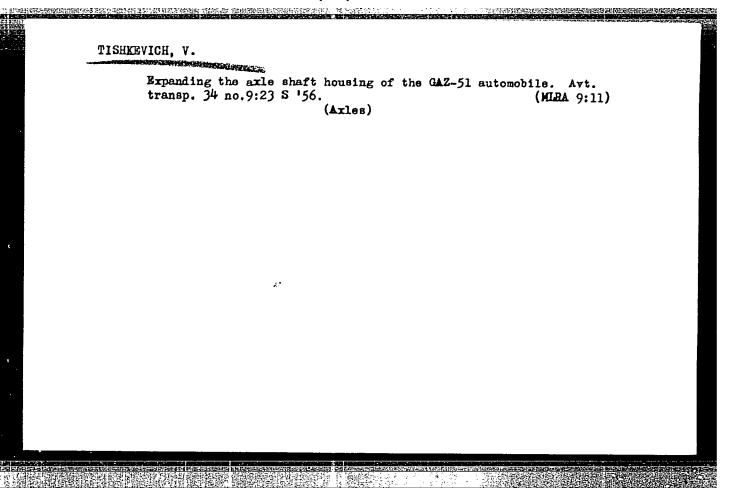
[Hydrological yearbook; 1955] Gidrologicheskii ezhegodnik, 1955 g. Tom 00, vyp. 0-0. Pod red. I.I.Ivanova. Leningrad, Gidrometeor. izd-vo, 1958. 58 p. (MIRA 12:5)

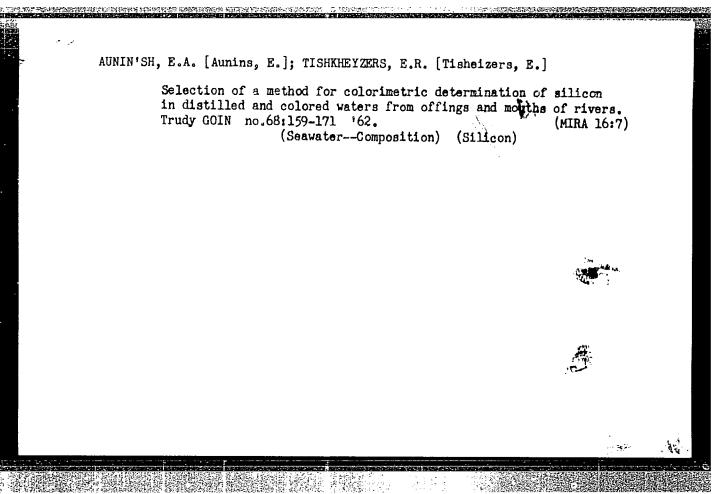
1. Russia (1923- U.S.S.R.). Glavnoye upravleniye gidrometeorologicheskoy sluznoy. 2. Zhukovskaya gidrologicheskaya stantsiya (for Sukhoruk, Tishkevich). 3. Krasnosel'skaya gidrologicheskaya stantsiya (for Ivanovskiy). 4. Podgornaya gidrologicheskaya stantsiya (for Melekhov, Abdurakhmanov).

(Hydrometeorology)

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\$/081/62/000/010/039/085 3168/3180

AUTHORS:

Vol'fson, F. I., Kushnarev, I. P., Lukin, b. I., Smorchkov, I. Ye., Sonyushkin, Ye. P., Tishkin, A. I.

TITLE:

Some problems congerning the formation of madrothermal

uranium deposits

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 10, 1962, 117, abstract 106111 (Izv. vyssh. uchebn. zavedeniy. Gcol. i

razvedka, no. 0, 1961, 12-24)

TEXT: A geological study of samples from hydrothermal uranium deposits from various provinces shows that they have many genetic features in common. The uranium-bearing provinces are characterized by many stages of magnatism. Uranium mineralization is due to plutonic pockets of granite magna in the final stage of development. Large-spale chemical analyses for one of the provinces showed the mean uranium content of the Early Hercynian magna complex to be 2.2·10-4%, that of the Middle Hercynian 4.6·10-4% and that of the Late Hercynian 6.3·10-4%. In each separate intrusive complex the quantity of uranium is greater in the

separate instablic co.

Card 1/2

S/081/62/000/010/039/085 B168/B180

Some problems concerning the ...

younger rocks. Uranium mineralization occurs during one of the final chages of the hydrothermal process. The principal paragenetic associations of pitchblende are pitch-sulfide, pitch-carbonate, pitch-fluorite and pitch-quartz-pyrites. The first two associations are typical of uranium deposits properly speaking. Uranium can be transported in hydrothermal solutions in tetravalent and hexavalent forms, passing through the stages of true and colloidal solutions. The optimum conditions for the formation of the upper part of uranium deposits are found at 500-700 m from the former surface of the earth with a possible vertical mineralization range of up to 1800 m. Deposition of the ores is accompanied by silicification, chloritization, abbitization and sericitization of the enclosing rocks. Albitization is typical of the upper parts of uranium ore-bodies. The temperature at which the ores form is found to be 150-200°C. [Abstracter's note: Complete translation.]

Card 2/2

VOL'FSON, F.I.; KUSHNAREV, I.P.; LUKIN, L.I.; SMORCHKOV, I.Ye.; SONYUSHKIN, Ye.P.; TISHKIN, A.I.

Some problems of the formation of hydrothermal uranium deposits. Izv.vys.ucheb.zav.; geol.i razv. 4 no.9:12-24 S '61. (MIRA 14:9)

l. Institut tsvetnykh metallov i zolota imeni M.I. Kalinina i Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR.

(Uranium ores)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"

	21(1) International Conference on the Peaceful Uses of Atomic Basylogy, Comert, 1993 Guerra, 1993 Ballady corrected subscript; Fadernoye gorycuboye i restronyye metally. Atomic Majoria of Sorier Scientists; Mullar Fast and Resetor Nation, Palasted., 1999, 670 p. (Series: Ite: Truty, vol. 3, 6,000 -cytes printed.)	Corresponding Newborn	sing technology of nuclear frame of the or offices on effects on settles. The titles of board word for word with these in the board word for word with these in the board word for word with these in the followest proceedings. See the set. [Additional Set. Additional Continuation of the set. Additional Continuation of the set. Additional Settle	Greenbry A.O., 3.V. Maniharatury, A.I. Sitomer, M. A. Askellov, M.S. Schirmtor, S.A., Sarre, and S.P. Jifferne, Some Theoretical and Methodical Problems of Radiometric Prospecting and Survey (Report So. 253) Belanberich, In. P. The Genne-ray Emention Method for Classifying Assemblies in Radiometricty (Report So. 223) Egyda, O.A., and M.E. Strinishenko, Some Problems of Radiometric Uranium Ove Concentration (Report So. 253)	
1 .					

ANICHKOV, N.N., akademik; ZAKHAR'YEVSKAYA, M.A., prof.; TISHKIN, N.A., doktor med.nauk; SARKISOV, D.S., doktor med.nauk; PETRUKHIN, V.G., kand. med.nauk; PINCHUK, V.M., kand.med.nauk

Solomon Samuilovich Vail'; obituary. Arkh.pat. 21 no.1:94-95 '59.

(OBITUARIES, Vail', Solomon, S. (Rus))

Tishkin, P. A. 18 "An investigation of the darka Radiation of pr³², Oglik, Ordi. 1931 and Hiff, and 1874, and 1874 with the Aid of a Lens Spectrometer." Cand Rays-math Sci. Leningrad State t, Leningrad 1953. (Referatively Zhurnal--Frizika, Jan 5h)

SO: 30% 168, 22 July 195h

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"

VSSR/ Nuclear Physics

Card 1/1 Pub. 43 - 4/11

Authors i Dehelanor

Dzhelepov, B. S.; Novosil'tseva, N. D.; and Tishkin, P. A.

Title Formation of Rel88 during the bombardment of W with slow neutrons

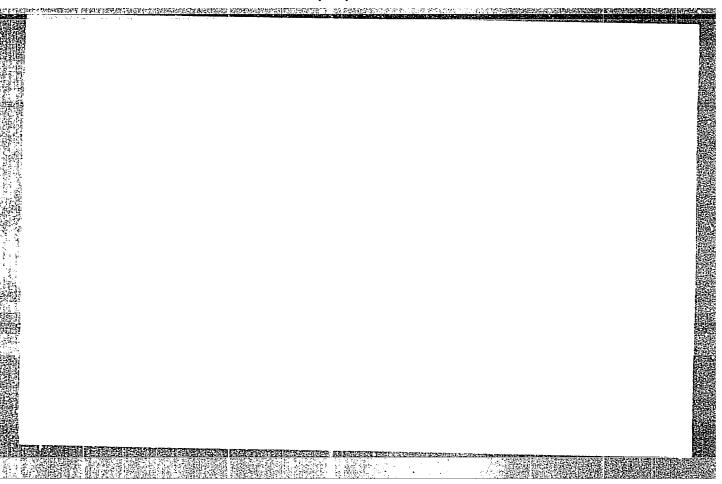
Periodical: Izv. AN SSSR. ser. fiz. 18/1, 76-78, Jan-Feb 1954

Experiments prove that the entrapment of neutrons by Re, which is found among the substances usually attached to W, results in the formation of Re¹⁸⁸ with a spectrum limit of 2 meV and a very small life period of 16.9 hr. One of the stable tungsten isotopes (W¹⁸⁸) is considered to be the basic source for the formation of Re¹⁸⁸. The beta-spectrum of the W¹⁸⁵ plus W¹⁸⁸ plus Re¹⁸⁸ compound derived after repeated extraction of Re from W was measured and the results obtained are given in graphs. The decomposition period for Re¹⁸⁸ was

established. Three references: 2-USSR and 1-USA (1946-1951). Graphs.

Institution: The A. A. Zhdanov State University, Physics Institute, Leningrad

Submitted : January 5, 1954



INAKIN YA

AUTHORS:

Dzhelepov, B.S., Preobrazhenskiy, B.K., Rogachev, I.M.,

Tishkin, P.A.

TITLE:

The Spectrum of the Conversion Electrons of No 160

(Spektr konversionnykh elektronov No 160)

PERIODICAL:

Izvestiya Akad. Nauk SSSR, Ser. Fiz., 1957, Vol. 21, Nr 7,

pp. 962 - 965 (USSR)

ABSTRACT:

The spectra of the conversion electrons of the erbium and holmium fractions were investigated by means of two lense spectrometers. These fractions had been won from tantalum which was irradiated with the energy of 660 MeV.

1.) The spectrum of the conversion electrons of a one day isotope was investigated in several series as long as the source did not decay. After 24 hours, after the elimination of the source, the spectrum manifested itself as shown in figure 1. The half-decay period for the lines which are given in table 1 lie in the domain of 25 to 30 hours which justifies the assumption that all lines of table 1 belong to one isotope. The comparison with published data shows that the observed activity is probably con-

Card 1/2

The Spectrum of the Conversion Electrons of Ho 160

48-7-7/21

nected with Er^{160} . It was shown in earlier works that Ho^{160} in the ground and isomeric states is obtained from the decay of Er^{160} .

2.) The holmium fraction was investigated by means of a two-lense spectrometer. Two preparations were investigated: The first one contained besides $\mathrm{Ho^{160}}$ an admixture of $\mathrm{Er^{160}}$, therefore the decay curves have a complicated form. The second source was again cleaned; first the erbium fraction was eliminated and after 25 hours the pure holmium $\mathrm{Ho^{160}}$; the intensity of all lines agreed with the period $5, 5 \pm 0, 2$ hours. Moreover 4 series of measurements in energy intervals of 2 - 200 keV were carried out. The total view of the obtained electron spectrum is represented on figure 2. Table 2 records the line energies and their id entification. There are 2 tables, 2 figures and 5 references, 3 of which are Slavic.

ASSOCIATION:

Leningrad State University imeni A.A.Zhdanov (Leningradskiy gos. universitet imeni A.A.Zhdanova)

AVAILABLE:

Library of Congress

Card 2/2

115H+11 +11.

AUTHORS:

Dzhelepov, B. S., Preobrazhenskiy, B. K., 48-22-3/17

Rogachev, I. M., Tishkin, P. A.

TITLE:

The Conversion Electron Spectrum of the Dysprosium Fraction (Spektr konversionnykh elektronov disproziyevcy fraktsii)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya. 1959

Vol. 22, Nr 2, pp. 126-134 (USSR)

ABSTRACT:

Conversion spectra of the neutron-saturated dysprosium isotopes were investigated here. The dysprosium fraction was chemically and chromatographically separated from the tantalum target bombarded with fast protons in the synchrocyclotron ONAN The irradiation lasted several hours, the separation of the rare earths took place 20-30 hours after the termination of the irradiation. The situation was more complicated than was to be assumed according to the Siborg tables. In the conversion spectrum the authors determined lines whose intensity decreased with half lifes of: a) 7.5 - 11 hours, b) 38 hours and c) 4.7 days. Due to the difficult situation explanations are here given according to groups of half-lifes. The Dy-fraction was investigated in two \(\beta\)-spectrometers with magnetic lenses (magnetic-lens

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The Conversion Electron Spectrum of the Dysprosium Fraction 48-22-2-3/17

spectrometer). 1.) In the spectrum of the dysprogram--fraction 15 electron-lines whose intensity decreased with a half-life of 7,5 - 11 hours were determined in the range of 3 - 150 keV. All lines repeated themselves in 6 series (performed with 2 sources). The value of the half-life of 7,5 hours was determined according to the decrease in intensity of the lines with 7,4 keV. The electron lines with 5,36 and 42 keV are L-MM, K-LL, K-L, and M Auger--electrons, the lines with 13,5, 57.5, 64,0, 74.0 and 81.0 keV were identified as conversion electrons K, L and M of the transitions with 65,5 and 82,5 keV in Tb. The electron lines with 48,0, 92,0, 98 and 142 keV apparently are K and L conversion electrons which correspond to the transitions with 100 and 150 keV, whereas the line with 132 keV apparently corresponds to the K-electrons of the transition with 184 keV. All transitions given here were for the first time observed by the authors. - 2.) Beside the lines with a time of decrease in intensity of about 10 hours 5 weak electron lines with a time of decrease in intensity of about 38 hours were determined in the β -spectrometer with single lens. For the time being it was not possible to ascribe these lines to a certain isotope. - 3.) After these

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 The Conversion Electron Spectrum of the Dysprosium Fraction 48-22-2 3/17

lines (with 10 hours) weaker lines of the conversion electrons, the intensity of which decreased with a half life of $(4,5 \pm 0,2)$ days became distinctly visible. K-. L- and M-electrons of the transitions with 63 and 87 keV L- and M-electrons of the transition with $57~\mathrm{keV},~\mathrm{K-}$ and L-electrons of the transitions with 149, 163, 180 and 200 keV, K-electrons of the transitions with 60 and 262 keV were determined. Some of these lines could not be identified. - It is shown that the activity decreasing with a period of 4,5 days can be ascribed to the terbium isotopes. It seems that at least 4 terbium isotopes with a half-life period of about 5 days exist: Tb^{153} (T = 5,1 days), Tb^{155} (T = 5,6 days), Tb^{157} (T = = 4.7 days) and Tb^{161} (T = 6.8 days). Summarizing the authors state that it is possible that Tb 1 57 has a haif-life of about 5 days, that it is accumulated from Dy 1 57 (T = = 8,2 hours) and that some conversion lines corresponding

to the period of \sim 5 days might belong to it. The decayscheme was discussed with L. K. Peker, K. Ya. Gromer

helped with the organisation of the works. A. Bagdanay and

Card 3/4

The Conversion Electron Spectrum of the Dysprosium Fraction 48-22-2-3/17

A. I. Yashchuk, Student-Diplomants (which prepare for their

diplomas) helped with the work.

There are 5 figures, 3 tables, and 9 references, 3 of which

are Soviet.

ASSOCIATION: Fizicheskiy institut Leningradskogo gosudarstvennogo

universiteta im. A. A. Zhdanova (Institute for Physics

in the Leningrad State University imeni A. A. Zhdanov)

AVAILABLE: Library of Congress

1. Dysprosium isotopes-Conversion spectra 2. Dysprosium isotopes-Irradiation 3. Rare earth elements-Separation

Card 4/4

AUTHORS:

Dzhelepov, B. S., Preobrazhenskiy, B. K., SOV/48-22-6-5/2c

Rogachev, I. M., Tishkin, P. A.

TITLE:

Conversion Electron Spectrum of the Cerium Fraction (Spektr

konversionnykh elektronov tseriyevoy fraktsii)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Seriya fizicheskaya,

1958, Vol. 22, Nr 8, pp. 931 - 934 (USSR)

ABSTRACT:

The activity of the cerium fraction in all sources obtained by the authors by irradiation at different times was small. At the beginning of the measurements the counting rate of the most intensive conversion line was 900 pulses per minute. The spectrum of the conversion electrons is shown in figures 1 and 2. Table 1 gives the energies of the lines, their possible identification and their relative intensities. The 15 electron lines that are found are classified into 3 groups according to their half-life. The intensities of the electron lines with energies of 126,2 and 159,1 keV decreased very slowly. These lines are apparently produced by the K- and (L + M) conversion electrons of the well known γ -transition hv=165 keV of the Ce¹³⁹ isotope (T_{1/2} = 140 days). The

Card 1/3

Conversion Electron Spectrum of the Cerium Practica

SCV:48-22-8-5/20

intensity of the electron lines 212,8 and 248 keV decreased with a half-life of 33 hours. These lines can be identified as K- and (L+M) conversion lines of γ transition. The value of the ratio K/(L+M) indicates a multiple type E3 (Table 2). An isomeric state with an energy of 206 keV corresponding to a half-life of 34,5 nours (Ref 7) exists in the isotope Ce 137. The authors are of opinion that considering the comparability of the decay energy (half-life energy) and of the multipole order energy of the observed transition with the data of the isomeric transition in Ce137 the activity with a half-life of 33 hours could be ascribed to Ce 137. These data do not contradict the decay scheme suggested by Brosi and Keptells. The intensity of the remaining lines decreased with a nalf-life of 17 hours. The evidence obtained by the authors is not sufficient to ascribe the lines with a $T_{1/2}$ of 17 hours to one definite Ce-isotope or to one of its daughter products, or to set up decay schemes. The authors express their gratitude to the synchrocyclotron staff and to I.A. Yutlandov. There are 2 figures, 2 tables, and 8 references, 4 of which are Soviet.

Card 2/3

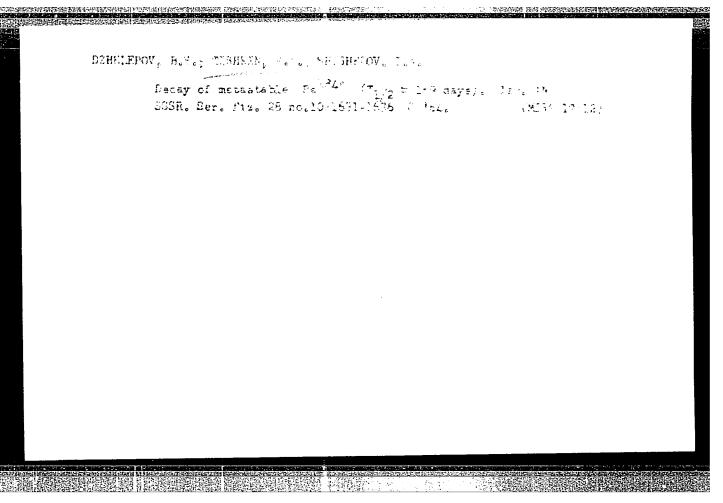
Conversion Electron Spectrum of the Cerium Fraction

507/48-22-8-5/20

ASSOCIATION: Nauchno-issledovatel'skiy fizicheskiy Institut Leningradskogo gos. universiteta im. A.A.Zhdanova (Scientific Research Institute of Physics at the Leningrad State University imeni A.A.Zhdanov)

Card 3/3

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		International Conference on the Posteral Bess of Atomic Besty, 24., Genera, 1995	ef Boylet Scientists; (Series: Its: Trudy, Vol.	 (Title page); A.I. Allthamer, Academicias; V.I. Warder, Academician; and H.L. Vlauve, Candidate of Pyrical and Methematical Education is I. of this wilmen; A.I. Decader and B.P. Zaretsky, Candidates of Physical and Methematical Methodos; Me. (Inside beak); G.L. Menlyms; Tech. Ed.: Te.I. Mass!. 	DOMS: This sollastion of articles is intended for admittic research vorters and other persons interested in undersymptics. The volume contains 45 papers presented by Beries statistics at the Boomé Conternace on Peaceful Wass of Asserts Berief, Add in dezers in Expisable 1999.	CONTRICT. IN 2s and the one parts. Part I contains If papers dealing with places payeds end controlled the resonables. Particles, and Part II contains 26 papers on mainer payids, including problems of particle decoleration and of contains any payer of the Articles of present a review of fortist work on controlled the monthles reacted as review of	study	contain der oy	Atoy 1 relies 1 (material)	of the your found of the your found of the your found on the found of	rions of reversed 2 2536 in		н	Y Bear	_		10 A	, 209 (602	
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'EWT(m) DIAAP L 3177-66 UR/0048/65/029/005/0714/0720 ACCESSION NR: AP5013992 AUTHOR: Dzhelepov, B.S.; Tishkin, P.A.; Shishelov, I.A.
TITLE: New data on the decay of the isomeric state of rhenium 184 Report, 15th Annual Conference on Nuclear Spectroscopy and the Structure of the Atomic Nucleus held in Minsk, 25 Jan-2 Feb 1965/ SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.29, no.5, 1965, 714-720 tungsten, internal conver-TOPIC TAGS: isomeric transition, rhenium, sion, nuclear spectroscopy ABSTRACT: This paper reports a continuation of the authors' investigations of the decay of 167-day Release (Izv.AN SSSR.Ser.fiz.27,1282 (1963); 28,1631 (1964); Program of the 14th Annual Conference on Nuclear Spectroscopy, p.68, Izd, "Nauka", 1964). The investigation was conducted by the conversion electron coincidence method with the Len-ingrad State University double toroidal beta spectrometer. The mea-

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ACCESSION NR: AP5013992

surements were started 20 month after activation of the sample; there was therefore no appreciable 68-day Re¹⁸⁵ contamination. The conversion electrons were observed in the energy range from 25 to 170 keV. The conversion electron spectrum and several coincidence spectra are presented graphically and are discussed in some detail. The tentative decay scheme to which the authors were led is shown in the enclosure. The 64 keV transition in W¹⁸⁴ has not been previously reported. This transition is difficult to observe in the conversion electron singles spectrum because of the proximity of the L64 line to the (M + N)55 W¹⁸⁴ lines and of the (M + N)64 lines to the strong L84 (Re¹⁸⁴ line; it was observed by coincidences of L64 and (M + N)64 with L111 W¹⁸⁴ conversion electrons. The 1223 and 1287 keV W¹⁸⁴ levels between which this transition is presumed to occur were identified and the spins and parities assigned by B.Harmatz and T.H.Handley (Nucl. Phys. 56,1,1964). Prompt and delayed coincidences between the L111 W¹⁸⁴ conversion electrons and conversion electrons from the 55, 162 and 217 keV W¹⁸⁴ transitions were sought and not found. From this it is concluded that W¹⁸⁴ has a previously unreported isomeric state

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ACCESSION NR: AP5013992

6

with a half life greater than 5×10^{-6} sec. If the enclosed decay scheme is correct, the long-lived state is the 1287 keV 5 state. "The authors express their gratitude to <u>L.K.Peker for his interest</u> in the work and for a discussion of the results." Originart has: 6 figures.

ASSOCIATION: Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gosudarstvennogo universiteta (Scientific Research Physics Institute, Leningrad State University)

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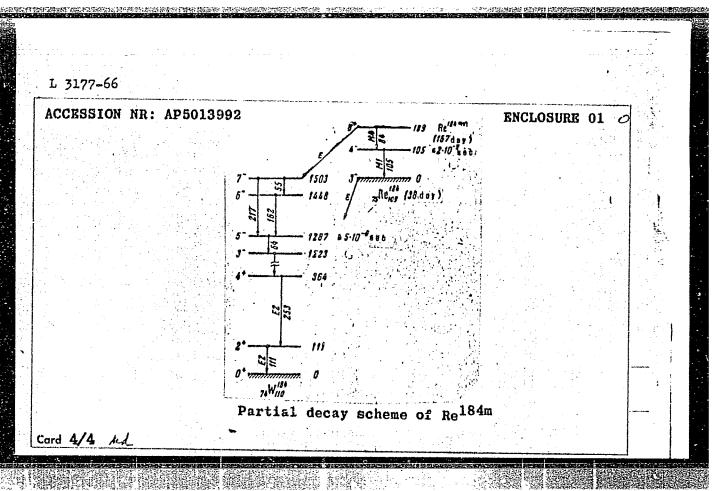
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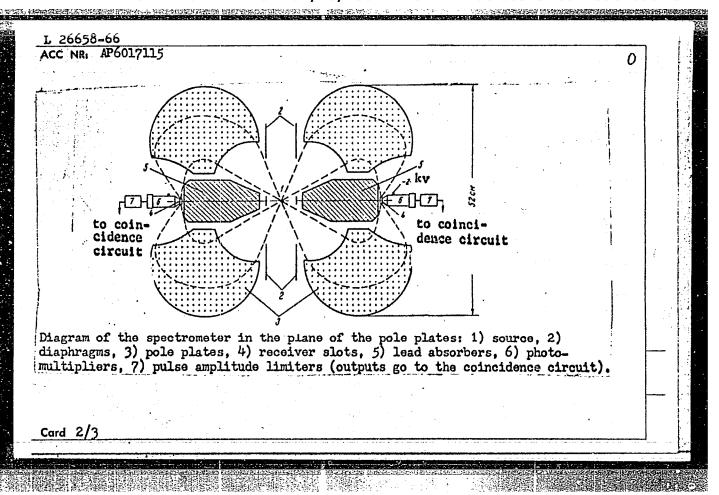
Card 3/4



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CIA-RDP86-00513R001755820004-9

DIAAP L 26658-66 EWT(m) ACC NR. AP6017115 SOURCE CODE: UR/0048/65/029/012/2157/2162 AUTHOR: Dzhelepov, B. S.; Prikhodtseva, V. P.; Tishkin, P. A.; Shishelov, I. A. ORG: Scientific Research Institute of Physics, Leningrad State University (Nauchnoissledovatel'skiy fizicheskiy institut Leningradskogo gosudarstvennogo universiteta); Radium Institute AN SSSR (Radiyevyy institut AN SSSR) TITIE: Duplexed toroidal beta-spectrometer for studying ee- and beta e-coincidences This paper was presented at the 15th Annual Conference on Nuclear Spectroscopy and the Structure of the Atomic Nucleus, held in Minsk from 25 January to 2 February 1965 SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 12, 1965, 2157-2162 TOPIC TAGS: spectrometer, radioactive decay, vacuum chamber ABSTRACT: The Leningrad University and the Radium Institute have built duplexed toroidal beta-spectrometers for the purpose of studying the decay schemes of radioactive nuclei by the coincidence technique. The focussing system used is based on the principle developed by Nielsen and Kofoed-Hansen. This design affords several advantages for such studies, and experiments already carried out show that the instrument can be used to study complex decay schemes. The vacuum chamber (2 x 10^{-4} mm Hg) has three brass cylinders. The two outer ones are mounted on cradles that move on rails so that they can be pulled away from the stationary center one. Electromagnets, diaphragms, and holders Card 1/3



- 1	ACC NR: AP6017115	
	for the detectors are mounted on the central part. Each of the two electromegnets has six sections with identical 20 deg. gaps. Each coil is water—cooled, has 900 turns of 1.2-mm dia. copper wire wound on a copper shell, and can carry up to 4 amp with negligible heating. Other details of the instrument, including the source, diaphragms, and detectors, are described. A section through the spectrometer in the plane of the pole plates is shown (see enclosure), as well as a photograph of the magnet section.	10
	Experiments conducted with the instrument to calibrate it and test its capabilities and limitations are discussed extensively. Curves plotted from	
+	G. Ya. Sozinov (Engineers of VNIIM) for building the instrument; V. Mikhaylov V. Golubev (technicians of the "Etalon" Plant) for setting up the instruments; Semenov, A. A. Afonin, V. A. Koshelev and F. T. Charles for their bell in an analysis.	and
	G. Ya. Sozinov (Engineers of VNIIM) for building the instrument; V. Mikhaylov V. Golubev (technicians of the "Etalon" Plant) for setting up the instruments; Semenov, A. A. Afonin, V. A. Koshelev and F.I. Chepikov for their help in ca the spectrometers. Orig. art. has: 7 figures and I table. JPRS	and
	G. Ya. Sozinov (Engineers of VNIIM) for building the instrument; V. Mikhaylov V. Golubev (technicians of the "Etalon" Plant) for setting up the instruments; Semenov, A. A. Afonin, V. A. Koshelev and F. T. Charles for their bell in an analysis.	and
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DIAAP/IJP(c) JD/JG/AT EWT(1)/EWT(n) L 26652-66 UR/0048/65/029/012/2264/2270 SOURCE CODE: ACC NRI NP6017121 AUTHOR: Dzhelepov, B. S.; Moskvin, L. N.; Tishkin, P. A.; Uchevatkin, I. F.; Shishelov, I. A. ORG: Scientific Research Physics Institute, Leningrad State University im. A. A. Zhdanov (Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gosudarstvennogo universiteta); All-Union Scientific Research Institute of Metrology im. D. T. Mendeleyev (Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii) TITLE: Coincidence of conversion electrons in Co sup 135 decay This paper was presented at the 15th Annual Conference on Nuclear Spectroscopy and the Structure of the Atomic Nucleus, held in Minsk from 25 January to 2 February 1965. SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 12, 1965, 2264-2270 TOPIC TAGS: cerium, lanthanum, spectrometer, tantalum, proton, conversion electron spectrum The reported work was carried out to verify the scheme of excited levels of La 135. The spectrum of the conversion electrons was obtained with the duplexed toroidal beta spectrometer of the Leningrad State University. The Ca 155 sample was
obtained from a tantalum target irradiated by 660 Mev protons for 5 to 10 hours. Results appear to be definitive for the locations of transitions with energies of 88.4 and 118.0 kev in the upper part of the decay scheme. The authors thank K. Ya. Gromov and Zh. T. Zhelev for supplying the preparations and N. A. Lebedev for the chromatographic separation of the fractions. Orig. art. has: 4 figures. JPRS Card 1/15UB GODE: 20 / SUBM DATE: none / ORIG REF: 010 / OTH REF: 001

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CIA-RDP86-00513R001755820004-9

L 31405-66 EWT (m) SOURCE CODE: UR/0048/66/0030/003/0527/0529 ACC NRI AP6022575 AUTHOR: Dzhelepov, B. S.; Tishkin, P. A.; Shishelov, I. A. ORG: Scientific Research Physics Institute, Leningrad State University (Nauchnoissledovatel'skiy fizicheskiy institut Leningradskogo universiteta) TITLE: Excitation of a state with energies of 336 kev in the decay of Yb sup 169 yields Tu sup 169 SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 3, 1966, 527-529 TOPIC TAGS: excited state, radioactive decay, chromatography, particle accelerator target, proton accelerator, synchrocyclotron, radiation spectrometer, conversion electron spectrum, beta spectroscopy ABSTRACT: The decay of Yb169—Tu169 is studied for the purpose of discovering the~336 kev energy state by the "electron-electron" coincidence method. The Yb169 sample was extracted by chromatography from the lithium fraction of a tantalum target irradiated by 660 mev protons for 5 hours in the Dubna synchrocyclotron. Measurements were made on a double toroidal beta spectrometer. A graph is shown of a portion of the coincidence spectrum of the K131 Tu¹⁶⁹ conversion electrons. The intense coincidence peaks observed are identified as K. L. and M conversion lines of the 177 kev transition and (M+N) 131 and K198 spectrum of the conversion electrons. The relative intensities of the 177 kev K and L Card 1/2

Card 2/2 ('C

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CIA-RDP86-00513R001755820004-9**

EMBRIPOV, B.C., PRIRECTORY, V.F., THYBUR, F.J., MELIEFIOT, I.A.

Double toroidal \$\beta\$-spectrometer for studying ee and \$\beta\$-coincidences, Tav. AN SSSR. Ser. fiz. 20 no.17:2157-2167 b 165.

(MRA 19:1)

1. Bauchno-issledevatel'skiy fizicheskiy institut leniugradskoge gosudarstvennogo universiteta i Radiyevyy institut AN SSSE.

DZHELEPOV, B.S.; MOSKVIN, L.N.; TISHKIN, P.A.; UCHEVATKIN, I.P.: CHESTER ...

Coincidences of conversion electrons in Ce¹³⁵ decay. Izv. AM SAGB. Ser. fiz. 29 no.12:2264-2270 D *65. (MIKA 19:1)

l. Nauchno-issledovatel skiy fizicheskiy institut Leningradskogo gosudarstvennogo universiteta im. A.A. Zhdanova i Vsesoyuznyy nauchno-issledovatel skiy institut metrologii im. D.I. Mendeleyeva.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"

DZHELEPOV, B.S.; TISHKIN, P.A.; SHISHELOV, I.A.

New data on Re 1844 decay. Izv. AN SSSR.Ser. fiz. 29 no.5:714-720 My 165. (MIRA 18:5)

1. Nauchno-issledovatel'skiy fizicheskiy institut Leningradskogo gosudarstvennogo universiteta.

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DZHELEPOV, B. S.; TISHKIN, P. A.; SHISHELOV, I. A.

"The Decay of the Metastable State of Re 184 ($t_{1/2}$ 1681)."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

LGU (Leningrad State Univ)

DZHELEPOV, B.S.; TISHKIN, P.A.; SHISHELOV, I.A.

Studying the deciy scheme of Re 184 by the method of e-e--coincidences. Izv. AN SSSR. Ser. fiz. 27 no.10:1281- (MIRA 16:10) 1284 0 163.

SNEGUR, N. (pos.Novogornyy, Chelyabinskaya obl.); MAYTAMA, I. (Komsomol'sk-na-Amure); ZADOROZHNYY, N. (Kurgan); LUK'YANOV, N.; TISHKIN, V. (Orlovskaya obl.); STEPIN, A.; KHANDOGIN, A.; LAPAYEV, Ye. (Volzhsk); OKULOVSKIY, A.; MANDROV, V.

Readers' letters. Pozh.delo 9 no.3:30 Mr '63. (MIRA 16:4) (Fire prevention)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"

TISHKIN, Ye.I., inzh.

Organization of local operations in the accelerated movements of "built-up" trains. Zhel.dor.transp. 45 no.9:46-48 S '63.

(Railroads—Management)

(Railroads—Making up trains)

REYTBIAT, A.Ya. (Dnepropetrovsk); TISHKIN, Ye.M., inzh. (Dnepropetrovsk)

Method for the accelerated delivery of local shipments. Zhel.-dor.transp. 45 no.12:73-75 D '63. (MIRA 17:2)

1. Glavnyy inzh. sluzhby dvizheniya Pridneprovskoy dorogi.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"

FERMINOV, A.S.; TISHKIN, Yo.M., starshiy nauchnyy sctrudny

Efficient utilization of the rolling stock in local operations.

Zhel.dor.transp. 47 nc.9:26-26 S 165.

1. Zamesitel' glavnogo inzhenera Glavnogo upretlaniya
dvizheniya Ministerstva putey scobancheniya (for Ferninty).
skogo insti ata zhelsznodorozanogo nauchne-issiadovateit.
putey scobancheniya (for Tishkin).

KARETNIKOV, A.D., doktor tekhn.nauk; ASHUKIN, D.D., kand.tekhn.nauk; VOROB'YEV, N.A., kand.tekhn.nauk; TISHKIN, Ye.M., inzh.

How to organize the local operations on lengthened haul distances. Zhel.dor.transp. 44 no.8:55-59 Ag '62.

(MIRA 15:8)

(Railroads-Management)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755820004-9"

TISHKOV, Yu. Ya.; KREST'YANINOV, V.F.; GURA, P.L.; PRIBYTKOV, A.Ye.;

VENTYUTOV, P.A.

Using new technological processes. NTO 5 no.1:29 Ja '63.

(Zlatoust—Iron and steel plants)

ZHBLEZNYAKOVA, S.R., inzh.; TISHKINA, A.S., inzh.

Heat-resistant materials and their properties for use in electric furnaces. Vest.elektroprom. 28 no.12:49-54 D '57. (MIRA 10:12)

1. Opytno-konstruktorskoye byuro tresta "Elektropech'."

(Electric furnaces)

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CIA-RDP86-00513R001755820004-9 "APPROVED FOR RELEASE: 07/16/2001

HSHKINA H.S.

Zheleznyakova, Sh.R., and Tishkina, A.S., Engineers. AUTHOR: 110-12-14/19

TITLE:

Heat-resisting Materials Used in Electric Furnaces and their Properties (Zharoprochnyye materialy, primenyayemyye v elektropechakh i ikh svoystva)

PERIODICAL: Vestnik Elektropromyshlennosti, 1957, Vol.28, No.12, pp. 49 - 54 (USSR).

ACT: The scientific research department of the design office of the Elektropech' Trust has studied the heat-resistance of ABSTRACT: steels and alloys for electric furnaces. The tests were made on formed and on cast materials. The heat-resistances were tested on machines types $B\Pi$ -8 BVAM using standard procedure. The test duration was 500 hours. The creep-testing machines were specially developed by the department with the active participation of: Candidate of Technical Sciences Ya.R. Radzin, Engineer K.P. Sukhanov and Engineer E.N. Marmer. Four specimens were creep-tested simultaneously for periods of 1 000 - 2 000 hours, at the same temperature but under different stresses. A series of primary creep curves were then constructed. Within the region of steady creep, the data of the primary curves was used to determine total strains of 0.5, 1, 2 and 3%, which were plotted on log/log Cardl/5 paper with time on the abscissus and the stress on the ordinate,

110-12-14/19

Heat-resisting Materials Used in Electric Furnaces and their Properties.

forming a straight line which could be extrapolated to the full life of the part.

The different steels tested are described below; all except the first were heat-treated: steel 1X18H9T (**9**R 1T) is widely used for furnace parts operating at temperatures of up to 800 °C; it is of the austenitic-ferritic class with the properties and temperatures shown in Table 1. Creep tests were made at temperatures from 600 - 750 °C. By extrapolating the curves of Fig.1 to 10 000 hours, the creep limits given in Table 2 emerged.

Steel X23H18 (9U-417) is of the austenitic class and is heatresistant up to 1 000 °C; its physical, mechanical and heatresisting properties are given in Table 3. Specimens that had
been heat-treated at a temperature of 1 150 °C were tested for
creep at temperatures between 700 - 1 000 °C. The uniform rate
of creep was approximately up to 3%. Stress/time curves are
given in Fig. 2 and creep limits for 10 000 hours stress in
Table 4.

Steel X18H25C2 (OR-3C) is of the austenitic class. At temperatures above 1 000 °C the carbide phase begins to dissolve, and it Card2/5 is almost completely dissolved at 1 200 °C, at which temperature

Heat-resisting Materials Used in Electric Furnaces and their 110-12-14/19

there is a great increase in grain size. The properties of the steel at different temperatures are given in Table 5. The specimens tested were heat treated at a temperature of 1 200 °C. The Creep tests were made at temperatures of 875 and 1 100 °C. Uniform rate of creep was only observed up to 2% strain. Stress/ time curves are given in Fig. 5 and the creep limits and longterm strength in Table 6. Alloy X20H80T3A (3M-437A) was considered as being a more heatresisting material for creep-testing. This alloy when hardened at high temperature is an unsaturated solid solution which on repeated heating breaks down with the formation of a second phase which strengthens the alloy. The material was heat-treated at a temperature of about 1 100 °C. Greep tests wer treated at a temperature of about 1 100 °C. Creep tests were carried out at temperatures from 875 - 1 100 °C. A uniform

rate of creep occurs up to about 3% strain. The stress/time test results are given in Fig. 4 and creep limits and long-term

Alloy X20H80T (9M-435) is plastic in the hardened condition and makes good stampings. Its structure is austenitic with carbide. The specimens were heat-treated at 1 100°C. Creep tests were made at temperatures from 875 - 1 100°C. The test results and Card3/5

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Heat-resisting Materials Used in Electric Furnaces and their

Cast steel X25H11 (9M-316) is widely used for furnace parts operating at temperatures around 1 100°C. Its structure is austenitic with carbides. It is convenient to cast, weld and are not available. Creep tests were made at temperatures of 5700 - 1 000°C on specimens cut from cast rails. The specimens were used. The stress/time relationships are given in Fig.6, The following conclusions are drawn from the work: alloy 900°C and is heat-stable to 1 100°C. It is recommended for of its cost it should not be used at temperatures above 900°C, after heat-treatment, has equal or worse heat-resisting properties recommended. Steel X25H18 is heat-stable up to 1 000°C and is see is not of satisfactory resistance at this temperature, up to which it

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110-12-14/19

Heat-resisting Materials Used in Electric Furnaces and their Properties.

may be used. Steel X18H25C2 is heat-stable up to 1 100 °C; at temperatures above 900 °C its heat-resistant properties resemble those of alley X20H8OT5A and it is, therefore, appropriate for temperatures up to 1 100 °C. Cast steel 3M316 has good heat-resistant properties, is heat-stable up to 1 100 °C, and can be used for cast parts up to this temperature. Steel 1X18H9T is heat-stable up to 800 °C and may be used for parts operating up to this temperature. There are 6 figures, 9 tables and 4 references, 2 of which

There are 6 figures, 9 tables and 4 references, 2 of which are Slavic.

ASSOCIATION:

Design Office of the Elektropech' Trust (OKB

Tresta "Elektropech")

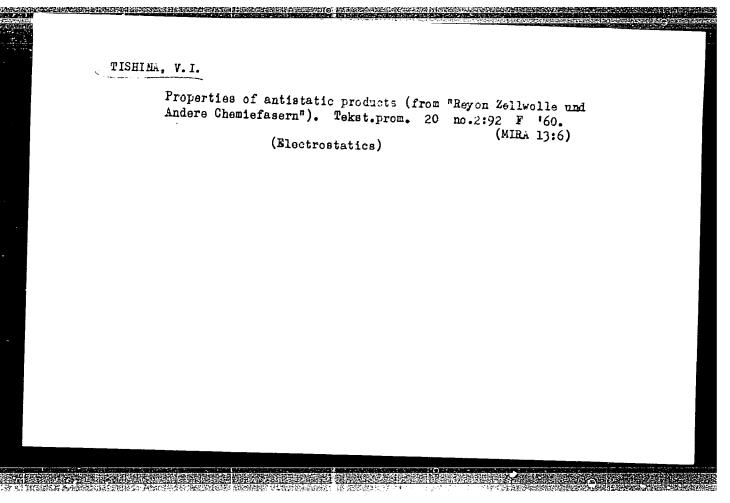
SUBMITTED:

February 14, 1957-

AVAILABLE:

Library of Congress

Card 5/5



GUSHTEROV, G.; TISHINIVA-NANOVA, V.

Iron bacteria in some water basins in Bulgaria. Godishnik
biol 57 no.1:1-7 '62-'63 [publ. '64].

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KIBA, B.S., mekhanik; TISHKO, N.I., slesar'

Electric saw for cutting high-tensile wire. Suggested by B.S.
Kiba, N.I.Tishko. Bats.i izobr.prodl.v stroi. no.16:48-49 '60.

(MIRA 13:9)

1. TSekh zhelezobetounykh izdeliy zavoda stroi*el'nykh detaley tresta No.5 Ministerstva stroitel'stva BSSR, Minsk.

(Wire)

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CHAYKOVSKIY, E.G.; TISHKOV, A.Ya.

Parameters of the system of overburden removal in inclined layers. Trudy Inst. gor. dela Sib. otd. AN SSSR no.7:97-107 '62. (MIRA 16:9)

KOSTTLEV, A.B., kand.teknn.oauk; GURKOV, K.S., kand.tekhn.mauk; PARINGRIY,
YO.F., inzh.; TISHKOV, A.Ya., inzh.; MAKDIMOV, V.A.; SEDYGHEV, V.F.;
KOLEGHIKOV, A.T.

Gentimous operation working element of a vibration leader.
Ugoh! 39 no.12440.43 D '64. (M.RA 13.2)

1. Institut gorneg: dela Sibirskog: otdeleniya AH SSSR (for
Kostylev, Gurkov, Parinskiy, Tishkov). Z. Aleksanarovski;
mashinatroitallayy zaved (for Makalmov, Sadyshav, Korosalkav).

SHANDALOY, D.A., fol'dsher (Talass); DROZD, V.I., fel'dsher (Minekaya oblast); FEKUR, M.I., fel'dsher (Krasnodarskiy kray); SHTANCHATEV, S.TS., pomoshchnik epidemiologa (Kokchetav) Notes on the article by Feldsher B.N.Tishkov on "Intravenous injections with detached meedle." Felds. Takush, me. 12:26-39 D '54. (MIRA 3:2) (INJECTIONS intravenous with detached needle, discussion)